

Linear guide rail

LFS-12-10



Features

- W 36 x H 24.5 mm
- 2 precision steel shafts Ø 12
- Anti-twist
- Aluminium shaft housing profile, naturally anodised
- Fixing from below with M6 tapped rail in T-slot insert and from above M6 drillings in the Raster 50 mm
- Conditionally self-supporting
- Special lengths to order
- Weight: approx. 2.9 kg/m

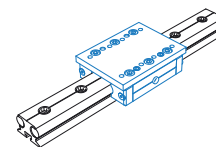
Ordering key

220 001 XXXX

Length in mm (in 100 mm raster)
e.g. **0300** = Length 296
3000 = Length 2996

Profile length = Length overall L - 1 mm

Special lengths over 3000 mm with rod linkage to order.

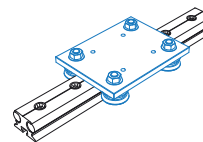


Slides

- Ground steel plate
- Lubrication system option
- Adjustable for no play

L 100 x W 75 x H 31.5 mm (WS 8/70)
(weight: approx. 0.7 kg)
Part no.: **223108 0070**

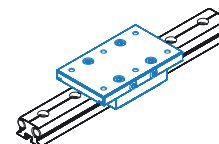
L 150 x W 75 x H 31.5 mm (WS 8)
(weight: approx. 1,0 kg)
Part no.: **223108**



Trolley LW 4

- L 125 x W 97 x H 7.7 mm
- Ground steel plate
- 4 rollers Ø 31, sealed for life
- Adjustable for no play
- Weight: 1.02 kg

Part no.: **223009**



For steel shafts Ø 12 mm

Dual track set 1

- L75 x W75 x H30.2 mm
- With 2 SMALL linear ball bearings

Part no.: **223001**

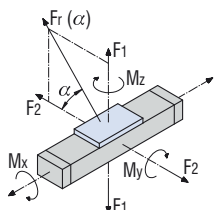
Dual track set 2

- L125 x W75 x H30.2 mm
- With 2 LARGE linear ball bearings

Part no.: **223002**

Load data

Slides WS 8/70		Slides WS 8		Trolley LW 4				Dual track set 1		Dual track set 2	
C ₀	3303 N	C ₀	4868 N	C ₀	2160 N	C ₀	645 N	645 N	1905 N		
C	1873 N	C	2426 N	C	4000 N	C	600 N	600 N	1125 N		
F ₁ static	2821 N	F ₁ static	4157 N	F ₁ static	4320 N	F ₁ static	652 N	652 N	1927 N		
F ₁ dynamic	1599 N	F ₁ dynamic	2071 N	F ₁ dynamic	3846 N	F ₁ dynamic	607 N	607 N	1138 N		
F ₂ static	3303 N	F ₂ static	4868 N	F ₂ static	2160 N	F ₂ static	645 N	645 N	1905 N		
F ₂ dynamic	1873 N	F ₂ dynamic	2426 N	F ₂ dynamic	4000 N	F ₂ dynamic	600 N	600 N	1125 N		
M _x static	46.7 Nm	M _x static	68.8 Nm	M _x static	135.4 Nm	M _x static	16.0 Nm	16.0 Nm	46.0 Nm		
M _y static	105.3 Nm	M _y static	155.2 Nm	M _y static	194.4 Nm	M _y static	13.0 Nm	13.0 Nm	119 Nm		
M _z static	123.3 Nm	M _z static	181.7 Nm	M _z static	97.2 Nm	M _z static	13.0 Nm	13.0 Nm	118 Nm		
M _x dynamic	26.4 Nm	M _x dynamic	34.2 Nm	M _x dynamic	120.5 Nm	M _x dynamic	15.0 Nm	15.0 Nm	27.0 Nm		
M _y dynamic	59.7 Nm	M _y dynamic	77.3 Nm	M _y dynamic	173.0 Nm	M _y dynamic	12.0 Nm	12.0 Nm	71.0 Nm		
M _z dynamic	69.9 Nm	M _z dynamic	90.5 Nm	M _z dynamic	180.0 Nm	M _z dynamic	12.0 Nm	12.0 Nm	70.0 Nm		



$$Fr(\alpha) = \frac{F_2}{\cos \alpha}$$

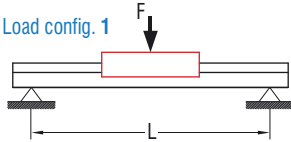
$$Fr(\alpha) = \frac{F_1}{\sin \alpha}$$

Linear guide rail

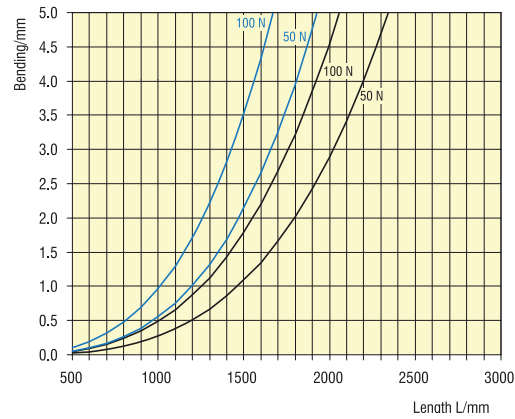
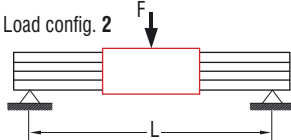
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Bending

■ Load config. 1

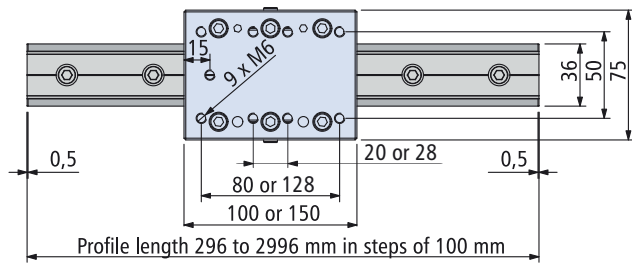
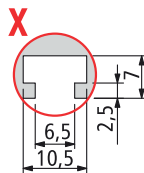
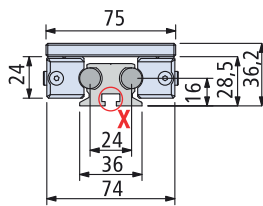


■ Load config. 2

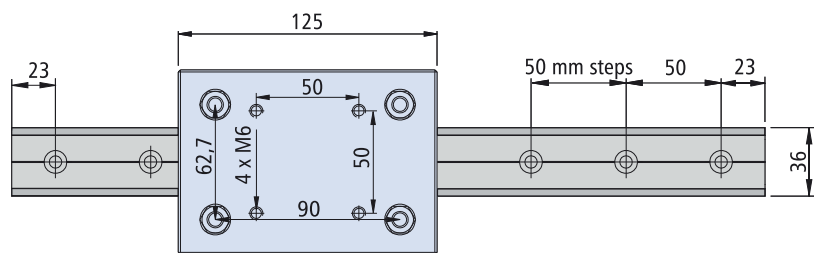
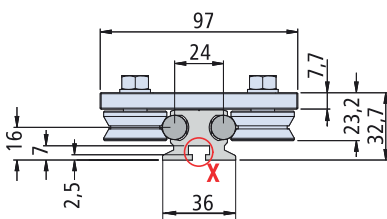


Dimensioned drawings

LFS-12-10 with slides WS 8



LFS-12-10 with trolley LW 4



LFS-12-10 with dual track set

